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13. ABSTRACT (Maximum 200 words) The UNITE program was conducted on four different college campuses during the summers of 1978, 1979, and 1980. To date five hundred minority students (371 male, 229 female) participated in a two-week introduction to the field of engineering and learned of opportunities for minorities with engineering backgrounds in the Air Force. The response rates to a survey initiated approximately six months following the program were low; this may be attributed to the fact that the participants most likely are targets bombarded with numerous questionnaires, invitations, and announcements. 10% of the 1978 and '79 participants are considering AFORTC.				
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AFOSR-TR-89-1381

FINAL REPORT
FOR
UNINITIATES INTRODUCTION TO ENGINEERING
1978-1980

Programs Funded by the
United States Air Force

(F49620-78-C-0120)

Participating Schools
Massachusetts Institute of Technology
University of New Mexico
Ohio State University
Tuskegee Institute

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May 1991

P R E F A C E

This report is divided into three sections. Part I is a follow-up of those who participated in the summer programs held in 1978, and Part II (commencing on page 27) of those in 1979, and Part III (commencing on page 37) of those in the 1980 summer program.

Even as this report was being prepared we were receiving replies from both groups. Each of these responses increased the percentage enrolled in engineering by a percentage point or more.

A Re-UNITE program was held during both the 1979-80 and 1980-81 school years at the University of New Mexico, but are not reported herein.

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PART I

UNITE

Follow-up
of the
1978 Program

UNITE 1978

The UNITE (Uninitiates Introduction to Engineering) program is an extension of the MITE (Minority Introduction to Engineering) program which had its start in 1974. The UNITE program is funded by the United States Air Force and is conducted at four college of engineering; Massachusetts Institute of Technology, University of New Mexico, Ohio State University, and Tuskegee Institute.

The UNITE 1978 participants are now finishing their sophomore year in college.

In these programs the participants were exposed to the engineering profession, learned about the various fields of engineering, the demands upon practicing engineers, and the effort required to achieve an engineering degree from an accredited college of engineering.

The first questionnaire was sent out in January of 1980 with a follow-up sent in April to those who had not responded to the first. Copies of the cover letters and questionnaire are included at the end of this report.

Forty-four of the participants responded to the questionnaire. Ninety-five percent of those responding are attending college. Thirty-five percent are attending the same school as where they attended UNITE.

Seventy-six percent of the males and 35% of the females are studying engineering. Eighty-two percent indicated that their participation in UNITE affected their attitude concerning engineering.

It is of interest that 100% of the respondents would recommend the program to a friend. Seventy-nine percent felt that UNITE helped them during their senior year in college.

All of the respondents felt that the UNITE program is a positive force in making minority students aware of and attracting them toward the study of engineering.

Sixty-eight percent are attending a college that has an AFROTC program. Eleven percent of those are enrolled in AFROTC. Fourteen percent intend to enrolle in AFROTC at a later date. Seven percent are taking Army ROTC or Naval ROTC. Twenty-six percent are considering an Air Force career following graduation from college.

Fifty-four percent would recommend AFROTC to a friend in high school. This certainly speaks highly of the program.

Thirty-two percent have a close relative in the military

I feel the following comment basically epitomizes the feelings of the majority of the students who attended the program in 1978.

Female - Engineering

"This was most certainly the best seminar I have ever attended. The combination of academic and social activities made the program exciting, informative, and a great place to learn and make new friends. I do wish I would have put more effort into learning and listening. It would have made the program even better. [] informed me about the engineering field and got me excited about a career I never dreamed I'd be interested in. Please continue this field otherwise. The only improvement you could make would be to broaden the curriculum so that all facets of Engineering are explored (including environmental) so that participants may discover the one that is right for them."

SP 1981		TOTAL MALE		TOTAL FEMALE		PERCENT	
RESPONSES OF PARTICIPANTS IN THE 1978 UNITE PROGRAM		M	F	M	F	M	F
Program Attendance		73	58	56%	44%		
Black Native American Puerto Rican Mexican American Other		49	37	67%	64%		
		4	5	5%	9%		
		5	1	7%	2%		
		12	10	16%	17%		
		3	5	4%	9%		
Responded to Questionnaire		26	18	36%	31%		
1. Are you currently attending college? Same school as you attended UNITE? Engineering Other If no, are you intending to attend college at a later date? Have you been admitted?	Yes	25	17	96%	94%		
	No	1	1	4%	6%		
	Yes	8	7	32%	39%		
	No	17	11	68%	61%		
	Engineering	19	6	76%	35%		
	Other	6	11	24%	65%		
	Yes	1	1	100%	100%		
	No	0	0	0%	0%		
	Yes	0	0	0%	0%		
	No	1	1	100%	100%		
3. My participation in the UNITE program affected by attitude concerning engineering.		Favorably	20	16	77%	89%	
		Unfavorably	0	0	0%	0%	
		Neither	6	2	23%	11%	
4. Were you intending to study engineering or a related area prior to attending the UNITE program?		Yes	23	9	88%	56%	
		No	3	7	12%	44%	
5. Would you come to the program again if you had it to do over?		Yes	25	18	96%	100%	
		No	1	0	4%	0%	

RESPONSES OF PARTICIPANTS IN THE 1978 UNITE PROGRAM (continued)		TOTAL MALE	TOTAL FEMALE	PERCENT	
		M	F	M	F
6. Would you recommend the UNITE program to a friend?	Yes No	25 0	18 0	100% 0%	100% 0%
7. Do you feel that attending the UNITE program helped you during your senior year in high school?	Yes No	18 7	16 2	72% 28%	89% 11%
8. Did you change your senior year program following the UNITE program?	Yes No	5 21	5 13	19% 81%	28% 72%
9. Following the UNITE program did you intend to study engineering or a related area?	Yes No	23 4	8 9	85% 15%	47% 53%
10. Do you feel the UNITE program is a positive force in making minority students aware of and attracting them toward the study of engineering?	Yes No	26 0	15 0	100% 0%	100% 0%
11. Do you feel that your reflection of the UNITE program favorably disposed other minority students into considering the study of engineering?	Yes No	20 2	14 0	91% 9%	100% 0%
12. Does the college you are attending have an AFROTC program?	Yes No	17 9	11 4	65% 35%	73% 27%

RESPONSES OF PARTICIPANTS IN THE 1978 UNITE PROGRAM (continued)		TOTAL MALE	TOTAL FEMALE	PERCENT	
		M	F	M	F
If yes; Are you enrolled in AFROTC?	Yes	2	1	12%	9%
	No	14	10	88%	91%
Do you enjoy your AFROTC classes?	Yes	1	1	50%	50%
	No	1	1	50%	50%
Do you feel that the AFROTC classes will be useful in your future work?	Yes	3	1	75%	50%
	No	1	1	25%	50%
If no; Do you intend to enroll in AFROTC at a later date?	Yes	1	1	12%	17%
	No	7	5	88%	83%
13. Are you enrolled in Army ROTC or Naval ROTC?	Yes	2	1	8%	6%
	No	24	15	92%	94%
14. Are you considering the possibility of an Air Force career following graduation from college?	Yes	7	3	29%	20%
	No	17	12	71%	80%
15. Would you recommend AFROTC to a friend in high school?	Yes	9	9	67%	69%
	No	10	4	53%	31%
16. Do you have a close relative in the military (father, mother, brother, or sister)?	Yes	7	7	26%	41%
	No	20	10	74%	59%

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JUNIOR ENGINEERING TECHNICAL SOCIETY

David C. O'Bryant, State Director

214 Transportation Building
Urbana, Illinois 61801
Phone: 217-333-6121

December 1980

TO: All 1978 UNITE (Air Force) Participants

FROM: D.C. O'Bryant, UNITE Consultant

A little over a year ago I wrote to you about your participation in the 1978 UNITE program. Results from the questionnaire that you and the other participants returned clearly showed that the program was a success. This is the third year of the UNITE follow-up.

The United States Air Force, having provided the financial support for the programs, have requested certain current information about the 1978 participants. Results from this follow-up, we hope, will result in continued and expanded funding for 1981.

If you would please fill out the enclosed questionnaire and return it in the enclosed stamped, self-addressed envelope as soon as possible, it will help insure that other students during the summer of 1981 will have the same opportunity to attend a program as you did during the summer of 1978.

Please fill in the name of a person who will know your address should you move.

Thank you in advance for your cooperation.

DCO:mb
Enclosures

P.S. Parents - I realize that many of the 1978 participants are not living at home. If you would please forward this questionnaire and envelope we would appreciate it.



JUNIOR ENGINEERING TECHNICAL SOCIETY

ILLINOIS STATE BOARD OF TECHNICAL EDUCATION, UNIVERSITY OF ILLINOIS, SPRINGFIELD, ILLINOIS

David C. O'Bryant, State Director

214 Transportation Building
Urbana, Illinois 61801
Phone: 217-333-5226

March 23, 1981

TO: Participant in UNITE 1978

FROM: D.C. O'Bryant, UNITE Consultant

SUBJECT: Questionnaire for UNITE 1978

I hope your second year in college is coming to a successful conclusion and you are enjoying and learning.

Some time ago I sent a questionnaire to you about UNITE 1978. I am enclosing another in case the other one was lost.

The United States Air Force, who funded the UNITE program, has requested that we conduct this follow-up program. If we don't get a good response rate to the questionnaire, the Air Force may feel that the UNITE participants did not think the program was useful and not fund future programs.

If you would take just a few minutes to fill out the enclosed questionnaire, you would be helping to insure that other young people would have the opportunity to attend a UNITE program just as you did in 1978.

DCO:mb
Enclosures

P.S. Parents: Please forward this to your son or daughter if they are away at college. It is very important that we get a very high response rate. Thank you in advance.

PLEASE RETURN TO:
D.C. O'Bryant, MITE Consultant
University of Illinois
117 Transportation Building
Urbana, Illinois 61801

UNITE 1978 (Air Force)
PARTICIPANT QUESTIONNAIRE
December 1980

Participant's Name: _____ Telephone: _____
Please Print Area Code-Number

Male ☐ Female ☐

Address: _____
City State Zip

Program Center
Attended: _____
Name and address of someone who will
know your address in case you move:

Is the address above the one where the question-
naire was originally sent? Yes _____ No _____

Name of H.S. Counselor: _____
Name of High School: _____
High School Address: _____

Please answer the following questions by checking the response that best describes your
attitude toward the MITE program. Through your comments we hope to be able to improve
the program and to make it more useful to future participants.

1. Are you currently attending college? Yes _____ No _____

If yes; what institution _____

Major field of study _____
Engineering (kind), Lib.Arts, Bus.etc.

If no; are you intending to attend college at a later date? Yes _____ No _____

Major field of study _____

Did you apply for college but were not admitted? Yes _____ No _____

2. What was your approximate high school academic standing? Title _____

Composite SAT or ACT score: SAT _____
ACT _____

3. My participation in the UNITE program (check one)

affected my attitude favorably concerning engineering _____

affected my attitude unfavorably concerning engineering _____

affected my attitude neither favorably nor unfavorably _____

4. Were you intending to study engineering or a related area prior
to attending the UNITE program? Yes _____ No _____

5. Would you come to the program again if you had it to do over? Yes _____ No _____

If no, please explain. _____

6. Would you recommend the UNITE program to a friend? Yes _____ No _____

7. Do you feel that attending the UNITE program helped you
during your senior year in high school? Yes _____ No _____

8. Did you change your senior year program following the
UNITE program? Yes _____ No _____

If yes; Did you make a change to more math? _____

Did you make a change to more science? _____

9. Following the UNITE program did you intend to study engineering or a related area? Yes ____ No ____
If no, What in particular decided you against studying engineering?

10. Do you feel that the UNITE program is a positive force in making minority students aware of and attracting them toward the study of engineering? Yes ____ No ____
Comments: _____

11. Do you feel that your reflections of the UNITE program favorably disposed other minority students into considering the study of engineering? Yes ____ No ____
12. Does the college you are attending have an AFROTC program? Yes ____ No ____
If yes; Are you enrolled in AFROTC? Yes ____ No ____
Do you enjoy your AFROTC classes? Yes ____ No ____
Do you feel that the AFROTC classes will be useful in your future work? Yes ____ No ____
If no; Do you intend to enroll in AFROTC at a later date? Yes ____ No ____
13. Are you enrolled in Army ROTC or Naval ROTC? Yes ____ No ____
14. Are you considering the possibility of an Air Force career following graduation from college? Yes ____ No ____
15. Would you recommend AFROTC to a friend in high school? Yes ____ No ____
16. Do you have a close relative in the military (father, mother, brother or sister)? Yes ____ No ____

Thank you for your cooperation.

PART II

UNITE
Follow-up
of the
1979 Program

Report on UNITE 1979

The UNITE (Uninitiates Introduction to Engineering) program is an extension of the MITE (Minority Introduction to Engineering) program which had its start in 1974. The UNITE program is funded by the United States Air Force and is conducted at four colleges of engineering; Massachusetts Institute of Technology, University of New Mexico, Ohio State University, and Tuskegee Institute.

The UNITE 1979 participants are now finishing their freshman year in college.

In these programs the participants are exposed to the engineering profession, learn about the various fields of engineering, demands upon practicing engineers, and the effort required in achieving an engineering degree from an accredited college of engineering.

The participants heard lectures, toured engineering facilities, participated in laboratories, and solved typical engineering problems.* In addition, they toured an Air Force installation, met Air Force civilians and military personnel, and were made aware of opportunities for minorities with engineering backgrounds in the Air Force.

The results of the questionnaire which was sent to all participants is enclosed at the end of this report, along with the tabulated results.

The major points brought out by the questionnaire will be summarized with conclusions indicated where appropriate.

Of the 137 participants in the 4 programs, 24% responded to the questionnaire mailed in January 1980. A second questionnaire was mailed to those who had not responded by April of 1980. Nineteen percent responded to the second mailing. Copies of the cover letters are included at the end of this report. Responses were obtained from 59 participants.

The 137 participants in the program were made up of 47 black males, 47 black females, 6 male native American, 3 female native American, 1 Puerto Rican male, and 1 female, 18 Mexican American male and 12 female, and 14 male and 12 female that were classified as "other."

In the following analysis, two numbers will be given in each case. The first being the percentage for the male participants and the second in parenthesis for the female participants.

*All four programs were not conducted in the same manner.

Of those responding, 91% (92%) indicated that they are attending college. In 1978 the figures were 78% and (80%). Forty-two (fifty) percent are attending at the same college as where they attended the UNITE program. Of those not currently attending college, 67% (100%) say they will apply at a later date.

Eighty-five (seventy-nine) percent said that their participation in UNITE affected their attitude concerning engineering. Relative to the participants' intentions prior to attending UNITE 71% (61%) said they intended to study engineering. Following the UNITE program 94% (79%) intended to study engineering or a related area.

All but one male respondent replied that he would attend UNITE if he had it to do over again. Every respondent said they would recommend the program to a friend.

Eighty (seventy-nine) percent felt that UNITE helped them during their senior year in high school. Twenty-seven (thirteen) percent changed their senior year program after having attended UNITE. Most made a change toward either more mathematics, more science, or in some cases both.

All respondents felt that UNITE was a positive force in making minority students aware of and attracting them toward the study of engineering.

Seventy-seven (seventy-six) percent of the respondents felt that their reflection of the UNITE program favorably disposed other minority students into considering the study of engineering.

Seventy (ninety-one) percent are attending a college that has an AFROTC program and 18% (5%) are enrolled in AFROTC. Twenty (twenty-nine) percent said they would enroll at a later date. Fifty (one hundred) percent indicated that they enjoyed their AFROTC classes and 75% (100%) felt that the AFROTC classes would be useful in their future work. Only 4 males and 1 female responded to these two questions. One male responded that he was enrolled in either Army ROTC or Naval ROTC.

Following graduation, 39% (17%) said they were considering the possibility of an Air Force career. Seventy-one (fifty-seven) percent indicated that they would recommend AFROTC to a friend in high school.

Twenty-nine (seventeen) percent have a close relative in the military.

SP. 1981

RESPONSES OF
PARTICIPANTS IN THE
1979 AIR FORCE
UNITE PROGRAM

RESPONSES OF PARTICIPANTS IN THE 1979 AIR FORCE UNITE PROGRAM		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE		TOTAL FEMALE		PERCENT		
		M	F	M	F	M	F	M	F	M	F	M	F			
Program Attendance		22	13	22	17	14	16	13	20	71	66	52%	55%			
Black		12	11	0	0	13	16	13	02	47	47	66%	71%			
Native American		0	1	6	2	0	0	0	0	6	3	8%	5%			
Puerto Rican		1	1	0	0	0	0	0	0	1	1	2%	2%			
Mexican American		0	0	11	11	0	0	0	0	18	12	15%	17%			
Oriental American		0	0	0	0	0	0	0	0	5	1	0%	0%			
Other		0	0	5	4	1	0	0	0	9	11	8%	6%			
Responded to Questionnaire		15	7	12	7	2	1	6	9	35	24	49%	36%			
1. Are you currently attending college?	Yes	14	5	11	7	2	1	5	9	32	22	91%	92%			
	No	1	2	1	0	0	0	1	0	3	2	9%	8%			
	Same school as you attended UNITE	Yes	3	3	6	4	1	0	3	4	13	11	42%	50%		
		No	11	2	5	3	1	1	1	5	18	11	58%	50%		
	Engineering	11	3	9	4	1	0	4	7	25	14	83%	67%			
		Other	3	2	1	3	0	0	1	2	5	7	17%	33%		
	If no, are you intending to attend college at a later date?	Yes	1	2	0	0	0	0	1	0	2	2	67%	100%		
		No	0	0	1	0	0	0	0	0	1	0	33%	0%		
	Engineering	0	1	0	0	0	0	1	0	1	1	100%	100%			
		Other	0	0	0	0	0	0	0	0	0	0	0	0		
3. My participation in the UNITE program affected my attitude concerning engineering.	Favorably	14	5	7	6	2	0	6	8	29	19	85%	79%			
	Unfavorably	0	0	1	1	0	0	0	0	1	1	3%	4%			
	Neither	1	2	3	0	0	1	0	1	4	4	12%	15%			
4. Were you intending to study engineering or a related area prior to attending the UNITE program?	Yes	10	4	11	5	0	0	4	5	25	14	71%	61%			
	No	5	2	1	2	2	1	2	4	10	9	29%	39%			

RESPONSES OF
PARTICIPANTS IN THE
1979 AIR FORCE
UNITE PROGRAM
(continued)

		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE		TOTAL FEMALE		PERCENT	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
5. Would you come to the program again if you had it to do over?	Yes	15	7	11	7	2	1	6	9	34	24	97%	100%		
	No	0	0	1	0	0	0	0	0	1	0	3%	0%		
6. Would you recommend the UNITE program to a friend?	Yes	15	7	12	7	2	1	6	9	35	24	100%	100%		
	No	0	0	0	0	0	0	0	0	0	0	0%	0%		
7. Do you feel that attending the UNITE program helped you during your senior year in high school?	Yes	8	5	9	4	2	1	5	9	24	19	80%	79%		
	No	2	2	3	3	0	0	1	0	6	5	20%	21%		
8. Did you change your senior year program following the UNITE program?	Yes	2	1	1	1	1	0	4	1	8	3	27%	13%		
	No	8	6	11	6	1	1	2	8	22	21	73%	87%		
9. Following the UNITE program did you intend to study engineering or a related area?	Yes	14	6	12	5	2	0	5	8	33	19	94%	78%		
	No	1	1	0	2	0	1	1	1	2	5	6%	22%		
10. Do you feel the UNITE program is a positive force in making minority students aware of and attracting them toward the study of engineering?	Yes	15	7	9	7	2	1	6	9	32	24	100%	100%		
	No	0	0	0	0	0	0	0	0	0	0	0%	0%		
11. Do you feel that your reflection of the UNITE program favorably disposed other minority students into considering the study of engineering?	Yes	11	6	7	3	1	0	5	7	24	16	77%	71%		
		3	1	3	2	0	1	1	1	7	5	23%	29%		

RESPONSES OF
PARTICIPANTS IN THE
1979 AIR FORCE
UNITE PROGRAM
(continued)

		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE TOTAL FEMALE		PERCENT	
		M	F	M	F	M	F	M	F	M	F	M	F
12. Does the college you are attending have an AFROTC program?	Yes	10	4	8	6	2	1	3	9	23	20	70%	91%
	No	3	1	4	1	0	0	3	0	10	2	30%	9%
	If yes; Are you enrolled in AFROTC?	Yes	3	0	0	0	1	0	1	4	1	18%	5%
		No	7	4	7	6	1	1	3	8	18	82%	95%
	Do you enjoy your AFROTC classes?	Yes	2	0	0	0	1	0	1	3	1	50%	100%
		No	3	0	0	0	0	0	0	3	0	50%	0%
	Do you feel that the AFROTC classes will be useful in your future work?	Yes	2	0	0	0	1	0	1	3	1	75%	100%
		No	1	0	0	0	0	0	0	1	0	25%	0%
	If no; Do you intend to enroll in AFROTC at a later date?	Yes	0	0	1	0	0	0	2	2	2	20%	29%
		No	2	0	4	3	0	1	2	8	5	80%	71%
13. Are you enrolled in Army ROTC or Naval ROTC?	Yes	0	0	0	0	0	0	1	0	1	0	4%	0%
	No	14	7	2	7	0	1	5	9	21	24	96%	100%
14. Are you considering the possibility of an Air Force career following graduation from college?	Yes	6	1	1	1	1	0	4	2	12	4	39%	17%
	No	8	6	10	6	0	1	1	6	19	19	61%	83%
15. Would you recommend AFROTC to a friend in high school?	Yes	9	6	4	1	2	0	5	5	20	12	71%	57%
	No	2	1	5	6	0	1	1	1	8	9	29%	43%
16. Do you have a close relative in the military (father, mother, brother, or sister?)	Yes	6	0	2	1	1	0	1	3	10	4	29%	17%
	No	8	7	10	6	1	1	5	6	24	20	71%	83%

JUNIOR ENGINEERING TECHNICAL SOCIETY

David C. O'Bryant, State Director

214 Transportation Building
Urbana, Illinois 61801
Phone: 217/333-0726

December 1980

TO: All 1979 UNITE (Air Force) Participants

FROM: D.C. O'Bryant, UNITE Consultant

A little over a year ago I wrote to you about your participation in the 1979 UNITE program. Results from the questionnaire that you and the other participants returned clearly showed that the program was a success.

The United States Air Force, having provided the financial support for the programs, have requested certain current information about the 1979 participants. Results from this follow-up, we hope, will result in continued and expanded funding for 1981.

If you would please fill out the enclosed questionnaire and return it in the enclosed stamped, self-addressed envelope as soon as possible, it will help insure that other students during the summer of 1981 will have the same opportunity to attend a program as you did during the summer of 1979.

Please fill in the name of a person who will know your address should you move.

Thank you in advance for your cooperation.

DCO:mb
Enclosures

P.S. Parents - I realize that many of the 1979 participants are not living at home. If you would please forward this questionnaire and envelope we would appreciate it.



JUNIOR ENGINEERING TECHNICAL SOCIETY

ILLINOIS STATE HEADQUARTERS UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN, ILL.

David C. O'Bryann, State Director

214 Transportation Building
Urbana, Illinois 61801
Phone: 217-333-0726

March 23, 1981

TO. Participant in UNITE 1979
FROM. D.C. O'Bryant, UNITE Consultant
SUBJECT: Questionnaire for UNITE 1979

I hope your first year in college is coming to a successful conclusion and you are enjoying and learning.

Some time ago I sent a questionnaire to you about UNITE 1979. I am enclosing another in case the other one was lost.

The United States Air Force, who funded the UNITE program, has requested that we conduct this follow-up program. If we don't get a good response rate to the questionnaire, the Air Force may feel that the UNITE participants did not think the program was useful and not fund future programs.

If you would take just a few minutes to fill out the enclosed questionnaire, you would be helping to insure that other young people would have the opportunity to attend a UNITE program just as you did in 1979.

DCO:mb
Enclosures

P.S. Parents. Please forward this to your son or daughter if they are away at college. It is very important that we get a very high response rate. Thank you in advance.

PLEASE RETURN TO:

D.C. O'Bryant, MITE Consultant
University of Illinois
117 Transportation Building
Urbana, Illinois 61801

UNITE 1979 (Air Force)

PARTICIPANT QUESTIONNAIRE

December 1980

Participant's Name: _____ Telephone: _____
Please Print Area Code-Number

Male ☐ Female ☐

Program Center

Attended: _____

Address: _____

Name and address of someone who will
know your address in case you move:

City State Zip

Is the address above the one where the question-
naire was originally sent? Yes No

Name of H.S. Counselor: _____

Name of High School: _____

High School Address: _____

Please answer the following questions by checking the response that best describes your
attitude toward the MITE program. Through your comments we hope to be able to improve
the program and to make it more useful to future participants.

1. Are you currently attending college? Yes No

If yes; what institution _____

Major field of study _____
Engineering (kind), Lib.Arts, Bus.etc.

If no; are you intending to attend college at a later date? Yes No

Major field of study _____

Did you apply for college but were not admitted? Yes No

2. What was your approximate high school academic standing? %tile _____

Composite SAT or ACT score: SAT _____
ACT _____

3. My participation in the UNITE program (check one)

affected my attitude favorably concerning engineering _____

affected my attitude unfavorably concerning engineering _____

affected my attitude neither favorably nor unfavorably _____

4. Were you intending to study engineering or a related area prior
to attending the UNITE program? Yes No

5. Would you come to the program again if you had it to do over? Yes No

If no, please explain. _____

6. Would you recommend the UNITE program to a friend? Yes No

7. Do you feel that attending the UNITE program helped you
during your senior year in high school? Yes No

8. Did you change your senior year program following the
UNITE program? Yes No

If yes; Did you make a change to more math? _____

Did you make a change to more science? _____

9. Following the UNITE program did you intend to study engineering or a related area? Yes ____ No ____
If no, what in particular decided you against studying engineering?

10. Do you feel that the UNITE program is a positive force in making minority students aware of and attracting them toward the study of engineering? Yes ____ No ____
Comments: _____

11. Do you feel that your reflections of the UNITE program favorably disposed other minority students into considering the study of engineering? Yes ____ No ____
12. Does the college you are attending have an AFROTC program? Yes ____ No ____
If yes; Are you enrolled in AFROTC? Yes ____ No ____
Do you enjoy your AFROTC classes? Yes ____ No ____
Do you feel that the AFROTC classes will be useful in your future work? Yes ____ No ____
If no; Do you intend to enroll in AFROTC at a later date? Yes ____ No ____
13. Are you enrolled in Army ROTC or Naval ROTC? Yes ____ No ____
14. Are you considering the possibility of an Air Force career following graduation from college? Yes ____ No ____
15. Would you recommend AFROTC to a friend in high school? Yes ____ No ____
16. Do you have a close relative in the military (father, mother, brother or sister)? Yes ____ No ____

Thank you for your cooperation.

DCO:mb
12/89

PART III

UNITE
Follow-up
of the
1980 Program

Report on UNITE 1980

The UNITE (Uninitiates Introduction to Engineering) program is an extension of the MITE (Minority Introduction to Engineering) program which had its start in 1974. The UNITE Program is funded by the United States Air Force and is conducted at four colleges of engineering; Massachusetts Institute of Technology, University of New Mexico, Ohio State University, and Tuskegee Institute. The first UNITE program was held in 1978.

In these programs the participants are exposed to the engineering profession, learn about the various fields of engineering, demands upon practicing engineers, and the effort required in achieving an engineering degree from an accredited college of engineering.

The participants heard lectures, toured engineering facilities, participated in laboratories, and solved typical engineering problems.* In addition, they toured an Air Force installation, met Air Force civilians and military personnel, and were made aware of opportunities for minorities with engineering backgrounds in the Air Force.

The results of the questionnaire which was sent to all participants is enclosed at the end of this report, along with the tabulated results.

The major points brought out by the questionnaire will be summarized with conclusions indicated where appropriate.

Of the 232 participants in the 4 programs, 35% responded to the questionnaire mailed in January, 1981. A second questionnaire was mailed to those who had not responded by April, 1981. Twenty-two percent responded to the second mailing. Copies of the cover letters are included at the end of this report. With this effort, responses were obtained from 132 out of 232 participants.

The 232 participants in the program were made up of 84 black males, 67 black females, 11 male native American, 10 female native American, 25 Mexican American male and 19 female, and 7 male and 9 female that were classified as "other."

Eighty-six percent have applied for admission to college. Of those who have not, 90 say they will apply at a later date.

Of those who have applied, 83% have indicated engineering at their field of choice. This compares to only 51% at the same time for UNITE 1978 and

*All four programs were not conducted in the same manner.

79% for UNITE 1979. Eighty-four percent of the males and 81% of the females indicated engineering. In 1979 only 70% of the females indicated engineering.

Comparisons of the responses to question numbers 3 and 12 (Are you now planning on going into engineering or a related area?), (Were you intending to study engineering or a related area prior to attending UNITE?) are quite revealing. There are four possible combinations of responses. Of the four possible responses, yes-no is the most interesting as this indicates participants who decided to study engineering because of the program. This value was 15% (13% male, 17% female). This is down compared to UNITE 1979. Seventy percent were intending to study engineering both prior to and after the program. Four percent decided not to study engineering whereas prior to the program they were. Both of these statistics are a large improvement over 1979.

The program helped 83% of the participants determine their future career goals essentially the same as for 1979.

Sixteen percent changed their senior year program following UNITE. Fourteen students wanted to change their program but could not for various reasons. Many of the respondents indicated that they changed or wanted to change their program because of what they learned at UNITE. A change to courses needed for the study of engineering was indicated by a number of the respondents.

The remainder of the statistics relative to engineering are self-explanatory but are quite positive so far as the apparent value of the program is encouraging minority students in the study of engineering.

The responses to the questions relating to the Air Force were all very positive. Evidently each program was contacted by the Air Force even though 11% of the participants indicated they did not. All but eleven of the participants responded that the tour of the Air Force facilities was of interest to them.

Seventy-eight percent were not considering an Air Force career prior to the program. Fifty-seven percent of the participants indicated that they would consider applying for Air Force ROTC if they attend a college that has Air Force ROTC. This would seem to indicate that their experience with the Air Force was overall quite positive. In 1979 this figure was 49%.

Response rate to the questionnaire was not as high as for the 1979 program when questionnaires were sent out 3 times. The last mailing for the 1979 program was in June which was a month after this report is due, thus we only use two mailings for UNITE 1980.

Typical student comments are included below. These give a better feeling for how the students felt about the program than statistics can do. Also indicated is the student's sex and planned field of study.

Female - Engineering

"I would just like to thank those people who were responsible for my being able to attend your program. The organizers of this program should be awarded for offering such an opportunity for high school students. I hope that future high school students that attend this program will get just as much out of it as I did, and even more. Thank you for being so interested in the younger generation to take time out and organize the MITE/UNITE program."

Female - Engineering

"I had a wonderful time at this program. I hope that you continue it. I did not realize the research going on in engineering fields especially at Kirtland. The tours were all well worth my time. I was privileged to see many things that some people only read about."

Male - Computer Science/Engineering

"The MITE program helped me to discover how campus life would be like and how I can adjust to it successfully. I've met the most intriguing persons in my life as well as very good friends. I feel this program is an outstanding one for minority students who are interested in demanding careers because the opportunity of just finding out about such careers as Electrical Engineering and Computer Science are very limited in our relative communities. I would recommend this program to anyone. Thank you for such a program and keep it up!"

Female - Engineering

"I was chosen to attend UNITE through the Regional Science and Engineering Fair held in Albuquerque. I had not heard a lot about the program. I feel that if you were to receive more cooperation through the schools as far as informing students about these types of opportunities you would have much more response. There are several students who have never heard of UNITE or MITE. I feel that to the average student who is considering engineering fields it could be very beneficial. College is a very important step and UNITE helped me to realize that there are several other fields of engineering which are just as interesting as Civil."

Female - Engineering

"First, I think you should know that I am a junior in high school. When I went to the program at M.I.T. last summer I'd had only a background in Chemistry and Algebra II. I never had physics or trigonometry. Though I was somewhat confused during my stay in Boston, I realize what a valuable experience it was. All the things I learned there have helped me to understand or get a

greater understanding of the math and science I now take. And likewise, I am beginning to really understand the concepts I learned last summer. Not only did the UNITE experience provide me with academic lessons, but it taught me to be patient with those who don't or aren't able to grasp the things that I am. M.I.T. was my first experience as being one of the "slow" learners. I really enjoyed my stay in Boston and the taste of college life UNITE provided me with. I had a chance to meet a lot of nice people and make lots of friends with whom I still keep in touch. Thank you for picking me, for it was an experience I'll never forget. I hope others will have the same wonderful time that I had."

Male - Business

"I feel that this program is excellent, and that it should be continued. Even though the program did not convince me to go into engineering, it did help, and stopped me from entering a field I would not enjoy. More emphasis should be placed on this program because this program is a very beneficial program. It should be enlarged so it could reach more students. Thank you for starting this program."

Female - Engineering

"This program was very beneficial to me in many ways. It is very important that this program continues for the sake of young people. I really enjoyed the experience and I would like other young people to enjoy it also."

Female - Engineering

"The UNITE program was a great experience for me. I enjoyed myself completely and was happy I had the opportunity to attend. I feel that nothing in the program should be changed. Everything in it (time and involvement) was distributed throughout all areas."

Female - Engineering

"I would like to express my deepest appreciation for having the opportunity to attend the UNITE program. I truly feel that this program is beneficial to all who attend."

SP 1931

RESPONSES OF
PARTICIPANTS IN THE
1950 AIR FORCE UNITE PROGRAM

SP 1931 RESPONSES OF PARTICIPANTS IN THE 1950 AIR FORCE UNITE PROGRAM		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE		TOTAL FEMALE		PERCENT		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Program Attendance		17	13	42	37	21	16	47	39	127	105	55%	45%			
Black		16	13	2	1	21	14	45	39	84	67	66%	64%			
Native American		0	0	11	10	0	0	0	0	11	10	9%	10%			
Puerto Rican		1	0	0	0	0	0	0	0	1	0	1%	0%			
Mexican American		0	0	23	18	0	1	2	0	25	19	20%	15%			
Other		0	0	6	8	0	1	0	0	6	9	5%	9%			
Responded to Questionnaire		11	8	22	26	11	11	21	22	65	67	51%	64%			
1. Have you applied for admission to college?	Yes	11	5	18	24	11	11	15	19	55	59	85%	88%			
	No	0	3	4	2	0	0	6	3	10	8	15%	12%			
	Same school as you attended MITE?	Yes	6	4	7	9	8	5	7	3	23	26	51%	44%		
		No	5	1	11	15	3	6	8	11	27	33	49%	56%		
	Engineering	7	4	16	18	10	9	13	16	46	47	84%	82%			
	Other	4	1	2	5	1	2	2	2	9	10	16%	18%			
2. If not, are you considering applying at later date?	Yes	0	3	4	2	0	0	5	3	9	8	90%	89%			
	No	0	1	0	0	0	0	1	0	1	1	10%	11%			
	Engineering	0	2	3	2	0	0	4	2	7	6	87%	75%			
	Other	0	1	1	0	0	0	0	1	1	2	13%	25%			
3. Are you now planning on going into engineering or a related area?	3	12														
	Yes	Yes	8	5	18	18	9	7	14	14	49	41	79%	68%		
	Yes	No	0	2	3	4	2	1	3	4	8	11	13%	17%		
12. Were you intending to study engineering or a related area prior to attending MITE?	No	Yes	1	0	0	2	0	1	0	2	1	5	1%	7%		
	No	No	2	1	1	1	0	1	1	2	4	5	6%	7%		
4. Did the program help determine your future career goals?	Yes	11	6	19	17	10	10	17	17	57	50	90%	76%			
	No	0	2	3	9	1	1	2	4	6	16	10%	24%			
5. Do you think program will be helpful in senior year's work?	Yes	10	7	18	13	11	7	18	21	57	53	88%	82%			
	No	1	1	4	8	0	3	3	0	8	12	12%	18%			

SP 1981

RESPONSES OF
PARTICIPANTS IN THE
1980 AIR FORCE UNITE PROGRAM
(continued)

		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE		TOTAL FEMALE		PERCENT	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
6. Did you change your senior year program following two-week program?	Yes No	1 10	1 7	2 20	2 24	4 7	2 8	6 15	3 19	13 52	8 58	20% 80%	12% 88%		
7. Did you want to change program but find you were un- able to do so?	Yes No	0 9	2 6	1 21	5 21	2 8	0 10	2 17	2 19	5 55	9 56	8% 92%	14% 86%		
8. Did you take mathe- matics during your junior year?	8	10													
	Yes Yes	11 0	8 0	19 2	22 4	10 1	11 0	13 6	18 3	53 9	59 7	81% 14%	88% 10%		
10. Are you taking mathe- matics during your senior year?	No No	0 0	0 0	1 0	0 0	0 0	0 0	2 0	1 0	3 0	1 0	5% 0%	1% 0%		
9. Did you take a physics or a chem- istry course dur- ing junior year?	9	11													
	Yes Yes	6 1	7 0	13 4	18 6	9 2	9 1	11 3	10 3	39 10	44 10	60% 15%	67% 15%		
11. Are you taking a physics or a chem- istry course during senior year?	No No	4 0	1 0	3 2	1 1	0 0	0 0	5 2	4 4	12 4	5 3	13% 6%	9% 8%		
16. Were the staff members in the program helpful?	Yes No	11 0	8 0	22 0	26 0	11 0	11 0	22 0	21 0	66 0	65 0	100% 0%	100% 0%		
19. Would you come to the program again if you had it to do over?	Yes No	11 0	8 0	22 0	22 3	11 0	10 1	21 0	21 0	65 0	61 1	100% 0%	94% 6%		
20. Would you recom- mend the program to a friend?	Yes No	11 0	8 0	22 0	25 0	11 0	11 0	19 0	21 0	63 0	65 1	100% 0%	99% 1%		

SP 1981

RESPONSES OF
PARTICIPANTS IN THE
1980 AIR FORCE UNITE PROGRAM
(continued)

		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE		TOTAL FEMALE		PERCENT	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
21-27. Have you dis- cussed the program with the following:	Principals Yes	3	3	3	0	3	1	6	5	15	9	23%	14%		
	No	8	5	19	24	7	10	16	16	51	55	77%	81%		
	Counselors Yes	9	8	20	20	10	10	15	21	54	59	82%	87%		
	No	2	0	2	8	1	1	7	0	12	9	18%	13%		
	Teachers Yes	9	8	20	22	10	8	21	21	61	59	92%	89%		
	No	2	0	2	4	0	3	1	0	5	7	8%	11%		
	Friends Yes	11	8	22	26	11	11	21	21	65	66	98%	100%		
	No	0	0	0	0	0	0	1	0	1	0	2%	0%		
Parents	Yes	10	8	22	26	11	10	21	21	64	65	97%	98%		
	No	1	0	0	0	0	1	1	0	2	1	3%	2%		
Relatives	Yes	7	7	19	22	11	10	18	21	55	60	82%	91%		
	No	4	1	4	4	0	1	4	0	12	6	18%	9%		
Other Adults	Yes	7	7	16	21	10	10	14	21	47	59	73%	89%		
	No	4	1	6	5	0	1	7	0	17	7	27%	11%		
28. Are any of your friends plan- ning to go into engineering or related areas?	Yes	9	5	16	23	9	8	14	02	48	56	79%	86%		
	No	2	2	4	3	1	3	6	1	13	9	21%	14%		
29. Did your parti- cipation in the program help to infl. them to go into engr. or a related area?	Yes	2	2	8	8	4	13	8	8	22	31	36%	42%		
	No	7	6	12	16	6	8	14	12	39	42	64%	58%		
30. Did you have any contact during the program with Air Force mili- tary or civilian personnel?	Yes	10	8	20	20	7	8	18	20	55	56	89%	89%		
	No	0	0	4	2	1	3	2	2	7	7	11%	11%		
31. Did you tour an Air Force base or installation during program?	Yes	11	8	24	21	8	11	2	0	45	40	71%	65%		
	No	0	0	0	1	0	0	18	21	18	22	29%	35%		
32. Was the tour interesting?	Yes	10	8	24	18	8	11	4	1	50	48	93%	87%		
	No	1	0	0	3	0	0	3	4	4	7	7%	13%		

SE 1981

RESPONSES OF
PARTICIPANTS IN THE
1980 AIR FORCE UNITE PROGRAM
(continued)

		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		UNIVERSITY OF NEW MEXICO		OHIO STATE UNIVERSITY		TUSKEGEE INSTITUTE		TOTAL MALE		TOTAL FEMALE		PERCENT	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
33. If you learn about possibili- ties for an Air Force engr. career?	Yes	11	7	24	22	8	11	19	21	61	61	97%	97%		
	No	0	1	0	0	1	0	1	1	2	2	3%	3%		
34. Were you consid- ering an Air Force career prior to the sum- mer program?	Yes	4	0	6	0	3	2	9	3	22	5	36%	8%		
	No	7	8	18	22	5	9	9	19	39	58	64%	92%		
35. Were you made aware of the bene- fits of partici- pating in the AFROTC during college?	Yes	10	7	21	21	6	8	19	21	56	57	89%	90%		
	No	1	1	3	1	2	3	1	1	7	6	11%	10%		
36. If you should to a univ. that offers AFROTC, would you consider applying for admittance in the program?	Yes	6	4	12	8	6	4	13	16	37	32	63%	52%		
	No	5	4	11	14	2	7	4	5	22	30	37%	48%		
37. Were either of your parents mem- bers of one of the military forces at some time?	Father														
	Yes	7	3	11	11	3	7	7	7	28	28	46%	44%		
	No	4	5	11	11	5	4	13	15	33	35	54%	56%		
	Mother														
	Yes	1	1	1	0	0	0	1	0	3	1	5%	2%		
	No	10	7	21	21	7	11	17	21	55	60	95%	98%		

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UNIVERSITY OF NEW MEXICO

List of UNIT 1 '80, Session 1 participants:

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TUSKEGEE INSTITUTE
SCHOOL OF ENGINEERING

1980 UNITE/SESSION I

JUNE 22 - JULY 2, 1980

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TUSKEGEE INSTITUTE
SCHOOL OF ENGINEERING

1980 UNITE/SESSION I

JUNE 22 - JULY 2, 1980

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TUSKEGEE INSTITUTE
SCHOOL OF ENGINEERING

1980 UNITE SESSION II

July 6 - July 16, 1980

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TUSKEGEE INSTITUTE
SCHOOL OF ENGINEERING
1980 UNITE SESSION III
JUNE 22 - JULY 2, 1980

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JUNIOR ENGINEERING TECHNICAL SOCIETY

ILLINOIS STATE HEADQUARTERS UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

David C. O'Bryant, State Director

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Phone: 217-333-6126

December 1980

TO: All Participants of the 1980 UNITE-MITE (Air Force) Program

I wish to congratulate you on your successful completion of the UNITE program last summer. As you probably realize, the MITE program was conducted at fifty different sites across the country and was funded by various industrial concerns who are interested in promoting engineering within minority communities. Over 2000 minority students participated. The UNITE program that you attended was held at four sites and had 232 participants.


UNITE-MITE Headquarters in New York is conducting a follow-up study of these programs in order that we can evaluate the effects these programs may have had. We need certain information, ideas, and your perceptions of the program. The results of these questionnaires will be utilized to evaluate the program, change and improve where necessary, and as a vehicle for expanding the number of participants in 1981.

If you could please fill out the questionnaire and return it in the enclosed stamped, self-addressed envelope, it may help to insure that other students during the summer of 1981 will have the same opportunity to attend a program as you did this summer.

Please return this questionnaire as soon as possible.

Thank you in advance.

Sincerely,


D.C. O'Bryant
UNITE-MITE Consultant

DCO:mb
Enclosures



JUNIOR ENGINEERING TECHNICAL SOCIETY

ILLINOIS STATE HEADQUARTERS - UNIVERSITY OF ILLINOIS - ST. CARBON SPRING, ILL.

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March 18, 1981

TO. Participant in UNITE 1980
FROM. D.C. O'Bryant, UNITE Consultant
SUBJECT. Questionnaire for UNITE 1980

I hope your senior year in high school is coming to a successful conclusion and your future plans are determined.

Some time ago I sent a questionnaire to you about your perceptions and ideas about UNITE 1980. I am enclosing another in case the other one was lost.

The United States Air Force, who funded the UNITE program, has requested that we conduct this follow-up program. If we don't get a good response rate to the questionnaire, the Air Force may feel that the UNITE participants did not think the program was useful and not fund future programs.

If you would take just a few minutes to fill out the enclosed questionnaire, you would be helping to insure that other young people would have the opportunity to attend a UNITE program just as you did in 1980.

Thank you in advance.

DCO:mb
Enclosures

PLEASE RETURN TO:

E.C. O'Bryen, MITE Consultant
University of Illinois
117 Transportation Building
Urbana, Illinois 61801

UNITED 1980 (AIR Form)
PARTICIPANT QUESTIONNAIRE

December 1980

Participant's Name: _____

Telephone: _____

Male ☐ Female ☐

Please Print

Address: _____

Program Center

Attended: _____

City

State

Zip

Name and address of person who

know your address in case you move

Is the address above the one where the questionnaire
was originally sent? Yes _____ No _____

Name of H.S. Counselor: _____

Name of High School: _____

High School Address: _____

Please answer the following questions by checking the response that best describes your attitude toward the MITE program. Through your comments we hope to be able to improve the program and to make it more useful to future participants.

1. Have you applied for admission to college: Yes _____ No _____

If yes, where? _____

School Name

Location

Major field

Engineering, Arts and Science, Business, etc.

2. If you have not applied for admission to college, are you
considering applying at a later date? Yes _____ No _____

If yes, major field _____

If no, why not? _____

3. Are you now planning on going into engineering or an
engineering-related field? (Math, Computer Science, etc.) Yes _____ No _____

4. Did the MITE program help to determine your future career goals? Yes _____ No _____

Please explain _____

5. Do you think the program will be helpful in
your senior year's work? Yes _____ No _____

6. Did you change your senior year program
following the two-week program? Yes _____ No _____

If yes, what changes did you make? _____

Why? _____

7. Did you want to change your program but find that
you were unable to do so? Yes _____ No _____

If yes, why were you unable to change your program? _____

8. Did you take mathematics during your junior year? Yes _____ No _____

If yes, what course? _____

9. Did you take a physics or a chemistry course during
your junior year? Yes _____ No _____

If yes, what course? _____

10. Are you taking mathematics during your senior year? Yes _____ No _____

If yes, what course? _____

12. Are you taking a physics or a chemistry course during your senior year? Yes _____ No _____

If yes, what course? _____

13. Were you intending to study engineering or a related area prior to attending the MITE program? Yes _____ No _____

If yes, what area? _____

14. What did you like best about the educational aspects of the program? _____

15. What did you like least about the educational aspects of the program? _____

16. What areas would you suggest be de-emphasized: If so, by how much and why? _____

17. Were the staff members in the program helpful? Yes _____ No _____

18. What changes would you make in the MITE program in order to improve it? _____

19. Who influenced you to attend the MITE program? Math Teacher _____ Parent _____
Science Teacher _____ Previous Participant _____
Other _____
(Specify)

20. Would you come to the MITE program again if you had it to do over? Yes _____ No _____

If no, please explain. _____

21. Would you recommend the program to a friend? Yes _____ No _____

Have you discussed the program with the following:

22. Principals? Yes _____ No _____ 23. Counselors? Yes _____ No _____

24. Teachers? Yes _____ No _____ 25. Friends? Yes _____ No _____

26. Parents? Yes _____ No _____ 27. Relatives? Yes _____ No _____

28. Other adults? Yes _____ No _____

29. Are any of your friends planning to go into engineering and related areas? Yes _____ No _____

If yes, what are their names?

Fr So Jr Sr

☐ ☐ ☐ ☐

☐ ☐ ☐ ☐

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30. Did your participation in the program help to influence them to go into engineering or a related field? Yes _____ No _____